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# Heat Your Home The Modern Way

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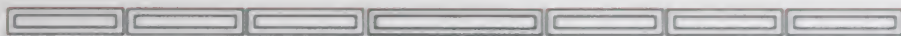
Burn fuel oil and keep warm—at the same time keep your house free from coal gas, ash dust, and dirt.



*Patent Applied For*

Have a low or high fire—just as you want it. If you do not need heat, turn it out. If it gets cold, a match and a few minutes time will warm your home and at the same time save you money on your fuel bills. The oil man will keep your tank full and your cellar can be kept as clean as your parlor.

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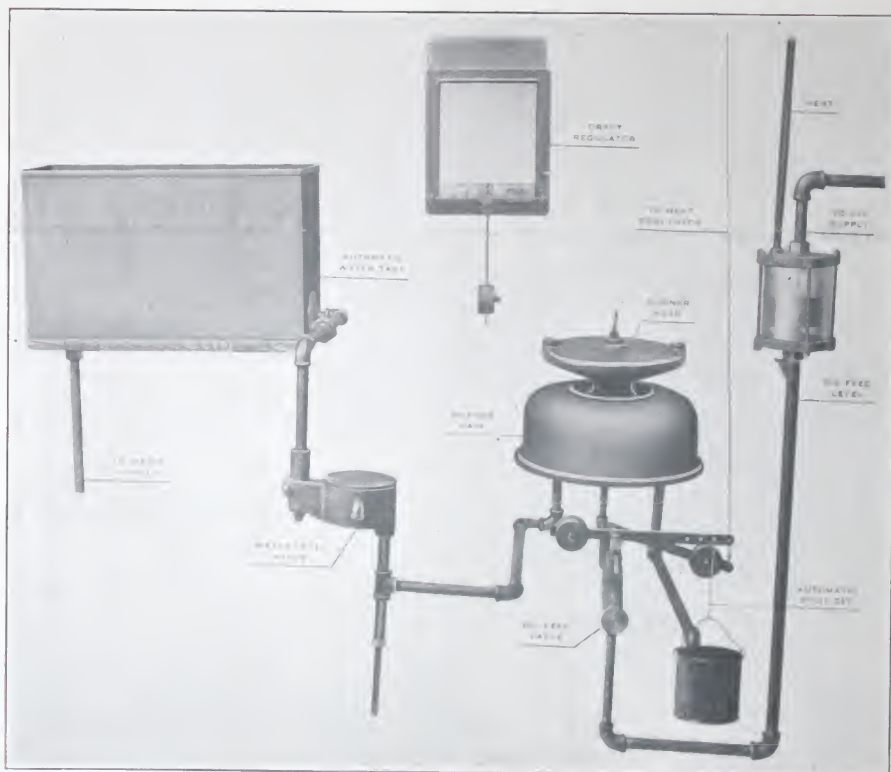


## INSTALL A MESSER FUEL OIL BURNER AND SOLVE YOUR HEATING PROBLEM

Your heating problem is getting worse each year. In some parts of the country where gas was formerly plentiful, it has become so scarce and high in price that it is almost prohibited as a heating fuel. Coal is the next best fuel which can be had for heating, but has many disadvantages. The handling of the coal means a lot of work; the fire must be kept clean, the ashes carried out, which causes dirt and dust all through the house. Kindling must be kept on hand, as sometimes the fire goes out, then the furnace must be cleaned out and fire rebuilt, which is a dirty job. In the spring and fall when the weather is not very cold but still cold enough that heat is required, it is quite difficult to hold a coal fire that will keep the house at the required temperature. It will either be too hot or your fire will go out and must be rebuilt. By the installation of the Messer Fuel Oil Burner, you solve all these problems, and will not increase your heating costs; rather you will reduce them, and in most cases a big saving is made over other fuels. By the use of the Messer Fuel Oil Burner, you do not have to change your furnace in any way. It is safer than coal, wood or gas: there is no dirt, no smell, no smoke, and can be turned up or down to obtain the required heat. It can be regulated by the use of any make of thermostat heat regulator. It is very simple in construction and can be cleaned without turning out the fire. It has no jets to clog or delicate parts to break or burn out.



(Any person can operate this burner who can operate a gas burner.)  
The burner is furnished complete as shown in the cut below, without the piping.



It is composed of a base, and burner head, thermostat valve with automatic shut-off and bucket, oil height float valve, water leveling valve, automatic water supply tank and 20 to 30 gallon oil feed tank according to size of burner and an automatic draft control suitable for smoke pipe diameter.

## INSTALLATION

Installation is made as follows: Base of burner is placed upon the grates in the center of the furnace with the three pipes extending

down far enough to connect out through the ash pit door. Make sure that the base is level. Would advise to remove one or two grates so that the air passage through the burner base is not obstructed any more than possible. Connect thermostat valve just outside ash pit door. Connect overflow pipe, extending out as far as safety lever and use elbow on end turned downward. Connect water pipe to bottom of water leveling valve which should be about two inches above the grate level. Make connections so that level valve can be raised or lowered to obtain proper water level. Connect top of leveling valve to water supply tank and the water supply tank is connected to water supply. To obtain water level in base of burner, after water leveling valve has been given time to fill raise level valve until water in burner base runs over into the ash pit, then lower valve about 3-8 of an inch. If burner base drips water, after burner becomes hot, lower a trifle more. The oil leveling valve is placed in the oil supply line, not less than 18 inches or more than 24 inches above the top of the burner, and under the supply tank. A 1-8 inch vent pipe should be screwed into the top of leveling valve and extend up about 2 or 3 inches above the top of supply tank. Use 3-8 inch pipe from thermostat valve to oil supply. After all connections are made, fill in around burner with sheet asbestos so that there are no holes and fill in with 2 1-2 inches of sand, so that all air space is shut off and air can pass only through the base of the burner. A more permanent job can be made by the use of firebrick and clay in place of sand.

To start burner lift off burner head, turn on oil and allow a small quantity to flow into the base. Use a few pine shavings or a small quantity of excelsior, place into the oil and light it with a match. Then place burner head back into the base, leave door open for 5 or 10 minutes, allowing a small quantity of oil to flow into burner, then close the door and set the oil for the proper amount of fire. Do not use waste or rags to light burner as it forms a wick and causes carbon to form. When thermostat valve is connected to a heat regulator, set small needle valve to the average amount of fire and large needle valve to the maximum amount of fire and heat regulator will control very close to the required temperature. When oil runs out of overflow pipe, it is an indication that the burner is not hot enough or more oil is fed than the burner will take.



## CARE OF BURNER

Once every day the burner head should be revolved a few turns. This prevents any carbon from forming in the base and once a week lift out burner head and clean the bottom side which is done by scraping. It is not necessary to turn out the fire. To do this, simply turn down a little and lift burner head off with a furnace hook. About two minutes is required for this work. This will keep the burner at its highest efficiency and will respond more quickly to thermostat regulation.

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## AUTOMATIC DAMPER

Automatic damper control is placed in the smoke pipe between the chimney and furnace. This is adjusted by weight to the required draft and operates automatically. Any change in the draft caused by a strong wind passing over the chimney does not effect the burner in its operations or cause heat losses by increased draft.

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## KIND OF FUEL

This burner is for burning fuel oil known as 36-40 gravity or any good grade of furnace oil or furnace gas oil.

The burner will operate in any house furnace as follows:

Hot air, hot water, steam, or vapor and is made in several sizes to suit grate areas from 8 to 36 inches in diameter, or their equivalents in area. It is quite important that the smoke pipe and furnace be cleaned out before installing oil burner, especially if wood or soft coal have been used as fuel.



# The Messer Fuel Oil Burner

Manufactured By

## Myrick Machine Company

Olean, New York

Guaranteed Against All Material Defects



Sold by

### E. A. SCHOTT, Distributor

Corner Union and Sullivan Streets

Olean, New York